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<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 14 L3

=> d abs bib fhistr 1-14

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2010 ACS on STN

AB The present invention related to a combination of (a) a GSK3 inhibitor and (b) an α 7- nicotinic agonist. The invention further relates to pharmaceutical compns. comprising said combination and to methods of treating CNS disorders in mammals by administrating said combination. The invention further relates to a kit comprising the combination and use of said kits in treatment of CNS disorders such as dementia and/or Alzheimer's Disease.

AN 2009:138859 CAPLUS

DN 150:222260

TI New therapeutic combination of a glycogen synthase kinase-3 (GSK3) inhibitor and an α 7-nicotinic agonist

IN Basun, Hans; Cox, Graham; Nordgren, Ingrid

PA Astrazeneca AB, Swed.

SO PCT Int. Appl., 59pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|--|----------|-----------------|----------|
| PI | WO 2009017454 | A1 | 20090205 | WO 2008-SE50897 | 20080729 |
| | W: | AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW | | | |
| | RW: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |

PRAI US 2007-952651P P 20070730

IT 220099-94-5

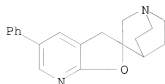
RL: PAC (Pharmacological activity); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(combination of a glycogen synthase kinase-3 (GSK3) inhibitor and an α 7-nicotinic agonist for dementia therapy)

RN 220099-94-5 CAPLUS

CN Spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine], 5'-phenyl-

(CA INDEX NAME)



RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2010 ACS ON STN

AB A method of treating ileus in a subject by administering to the subject an effective amount of a pharmacol. agent that increases the activity of cholinergic receptor in a subject is described. Examples of pharmacol. agents are brain muscarinic agonist, cholinergic agonist or cholinesterase inhibitor. The methods of the present invention can be used to treat ileus caused by abdominal surgery, or administration of narcotics or chemotherapeutic agents such as during cancer chemotherapy.

AN 2006:13528 CAPLUS

DN 144:101040

TI Method of treating ileus by pharmacological activation of cholinergic receptors

IN Tracey, Kevin J.; Fink, Mitchell P.

PA North Shore-Long Island Jewish Research Institute, USA; University of Pittsburgh- Higher Education Of the Commonwealth System

SO PCT Int. Appl., 31 pp.

CODEN: PIXXD2

DT Patent

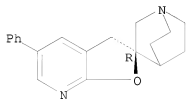
LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|--|----------|-----------------|----------|
| PI | WO 2006002375 | A2 | 20060105 | WO 2005-US22495 | 20050623 |
| | WO 2006002375 | A3 | 20060629 | | |
| | W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| | RW: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| | AU 2005258274 | A1 | 20060105 | AU 2005-258274 | 20050623 |
| | CA 2571584 | A1 | 20060105 | CA 2005-2571584 | 20050623 |
| | EP 1773304 | A2 | 20070418 | EP 2005-763466 | 20050623 |
| | R: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR | | | |
| | JP 2008504282 | T | 20080214 | JP 2007-518311 | 20050623 |

US 20070213350 A1 20070913 US 2006-645120 20061222
 PRAI US 2004-582545P P 20040623
 WO 2005-US22495 W 20050623
 OS MARPAT 144:101040
 IT 521288-83-5
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (activation of cholinergic receptors by muscarinic agonist, cholinergic
 agonist or cholinesterase inhibitor for treatment of ileus)
 RN 521288-83-5 CAPLUS
 CN Spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine],
 5'-phenyl-, (2'R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2010 ACS on STN
 AB Disclosed is a method of reducing bleed time in a subject by activation of
 the cholinergic anti-inflammatory pathway in said subject. The
 cholinergic anti-inflammatory pathway can be activated by direct or
 indirect stimulation of the vagus nerve. The cholinergic
 anti-inflammatory pathway can also be activated by administering an
 effective amount of cholinergic agonist acetylcholinesterase inhibitor to
 the subject. Examples were given for reduction of bleed time in a mouse model
 with elec. stimulation of the vegus nerve or nicotine administration.
 AN 2005:1075611 CAPLUS
 DN 143:339670
 TI Neural tourniquet with activation of cholinergic anti-inflammatory pathway
 IN Tracey, Kevin J.; Amella, Carol A.; Czura, Christopher
 PA North Shore-Long Island Jewish Research Institute, USA
 SO PCT Int. Appl., 50 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| WO 2005092308 | A2 | 20051006 | WO 2005-US9954 | 20050324 |
| WO 2005092308 | A3 | 20051201 | | |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
 SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,

AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

| | | | | |
|----------------|----|----------|-----------------|----------|
| AU 2005225458 | A1 | 20051006 | AU 2005-225458 | 20050324 |
| AU 2005225458 | B2 | 20081204 | | |
| CA 2560756 | A1 | 20051006 | CA 2005-2560756 | 20050324 |
| US 20050282906 | A1 | 20051222 | US 2005-88683 | 20050324 |
| EP 1734941 | A2 | 20061227 | EP 2005-755668 | 20050324 |

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR

| | | | | |
|----------------------|---|----------|----------------|----------|
| JP 2007530586 | T | 20071101 | JP 2007-505209 | 20050324 |
| PRAI US 2004-556096P | P | 20040325 | | |
| WO 2005-US9954 | W | 20050324 | | |

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 143:339670

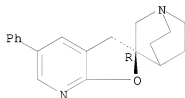
IT 521288-83-5

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (neural tourniquet with activation of cholinergic anti-inflammatory pathway)

RN 521288-83-5 CAPLUS

CN Spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine], 5'-phenyl-, (2'R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2010 ACS ON STN

AB Potent and selective ligands of the $\alpha 7$ nicotinic acetylcholine receptor are required to understand the pharmacol. effect of $\alpha 7$ activation. A common cross-reactivity occurs with serotonergic 5-HT3 receptors with which $\alpha 7$ receptors have a high sequence homol. The authors demonstrate that certain quinuclidine 3-biaryl carboxamides are high affinity $\alpha 7$ ligands with an excellent binding selectivity over 5-HT3 receptors.

AN 2005:1024915 CAPLUS

DN 143:452150

TI High affinity ligands for the $\alpha 7$ nicotinic receptor that show no cross-reactivity with the 5-HT3 receptor

AU Baker, S. Richard; Boot, John; Brunavs, Michael; Dobson, David; Green, Rachel; Hayhurst, Lorna; Keenan, Martine; Wallace, Louise

CS Lilly Research Centre, Eli Lilly and Company Ltd., Surrey, GU20 6PH, UK

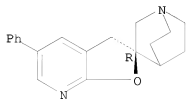
SO Bioorganic & Medicinal Chemistry Letters (2005), 15(21), 4727-4730

CODEN: BMCLE8; ISSN: 0960-894X

PB Elsevier B.V.

DT Journal
LA English
OS CASREACT 143:452150
IT 521288-83-5
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(high affinity ligands for $\alpha 7$ nicotinic receptor showing no
cross-reactivity with 5-HT3 receptor)
RN 521288-83-5 CAPLUS
CN Spiro[1-azabicyclo[2.2.2]octane-3,2'-(3'H)-furo[2,3-b]pyridine],
5'-phenyl-, (2'R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2010 ACS ON STN

AB A method of treating a patient suffering from pancreatitis comprising treating said patient with a therapeutically effective amount of a cholinergic agonist selective for an $\alpha 7$ nicotinic receptor in an amount sufficient to decrease the amount of the proinflammatory cytokine that is released from a macrophage wherein said condition is acute pancreatitis. The compds. of the present invention include a quaternary analog of cocaine; (1-aza-bicyclo[2.2.2]oct-3-yl)-carbamic acid 1-(2-fluorophenyl)-Et ester; a compound of formula (I), a compound of formula (II), a compound of formula (III), a compound of formula (IV), and an oligonucleotide or mimetic capable of attenuating the symptoms of acute pancreatitis wherein the oligonucleotide or mimetic consists essentially of a sequence greater than 5 nucleotides long that is complementary to an mRNA of an $\alpha 7$ cholinergic receptor. The variables of formulas (I), (II), (III) and (IV) are described herein.

AN 2005:547267 CAPLUS

DN 143:71763

TI Treatment of pancreatitis using alpha 7 receptor-binding cholinergic agonists

IN Tracey, Kevin J.; Wang, Hong

PA North Shore Long-Island Jewish Research Institute, USA; The Feinstein Institute for Medical Research

SO U.S. Pat. Appl. Publ., 37 pp., Cont.-in-part of U.S. Ser. No. 729,427. CODEN: USXXCO

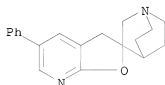
DT Patent

LA English

FAN.CNT 2

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

PI US 20050137218 A1 20050623 US 2004-957426 20040930
 US 7238715 B2 20070703
 US 20040204355 A1 20041014 US 2003-729427 20031205
 US 7273872 B2 20070925
 EP 1949901 A2 20080730 EP 2007-20473 20031205
 EP 1949901 A3 20081015
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IT, LI, LU, MC, NL, PT, RO, SE, SI, SK, TR
 EP 2062595 A1 20090527 EP 2009-1425 20031205
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IT, LI, LU, MC, NL, PT, RO, SE, SI, SK, TR
 US 20090123456 A1 20090514 US 2007-724605 20070315
 PRAI US 2002-431650P P 20021206
 US 2003-729427 A2 20031205
 EP 2003-796701 A3 20031205
 EP 2007-20473 A3 20031205
 US 2004-957426 A1 20040930
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 IT 220099-94-5
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (treatment of pancreatitis using $\alpha 7$ receptor-binding cholinergic
 agonists)
 RN 220099-94-5 CAPLUS
 CN Spiro[1-azabicyclo[2.2.2]octane-3,2'-(3'H)-furo[2,3-b]pyridine], 5'-phenyl-
 (CA INDEX NAME)



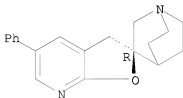
OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
 RE.CNT 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2010 ACS ON STN
 AB The $\alpha 7$ nicotinic acetylcholine receptor is highly expressed in the
 brain and has been associated with both psychotic and cognitive disorders.
 This receptor might therefore represent a potential target for novel
 drugs. We have studied the pharmacol. properties of two new $\alpha 7$
 agonists, referred to as A ((R)-(-)-5'-phenylspiro[1-
 azabicyclo[2,2,2]octane]-3,2'-(3'II)furo[2,3-b]pyridine) and B
 ((R)-N-(1-azabicyclo[2,2,2]oct-3-yl)-5-(2-pyridyl)thiopene-2-carboxamide).
 Both compds. activate human $\alpha 7$ nAChRs without activating other nAChR
 subtypes. When these selective $\alpha 7$ nAChR agonists were evaluated in
 behavioral assays, no activity of these compds. was detected (O'Neill et
 al., 2002). It is known that nAChRs can be desensitized by lower concns.
 of agonist than those needed to activate them. We have measured the
 concentration-response curves of these compds. to both activate and to cause
 steady-state desensitization of $\alpha 7$ nAChRs. Both compds. desensitize
 $\alpha 7$ nAChRs at much lower concns. than the concns. which activate

them. This might be one of the reasons for the lack of effects of these compds. in in vivo behavioral assays.

AN 2005:332477 CAPLUS
DN 143:1059
TI Functional characterization of selective $\alpha 7$ nicotinic acetylcholine receptor agonists
AU McPhie, G. I.; Pearson, K. P.; Broadmore, R. J.; Cases, M.; Kennan, M.; Boot, J. R.; Baker, S. R.; Broad, L. M.; Sher, E.; Zwart, R.
CS Lilly Research Centre, Eli Lilly & Company Limited, Windlesham, Surrey, UK
SO Proceedings of the FEPS Congress, 3rd, Nice, France, June 28-July 2, 2003 (2003), 189-193. Editor(s): Poujeol, Philippe; Petersen, Ole. Publisher: Monduzzi Editore, Bologna, Italy.
CODEN: 69GUDS; ISBN: 88-323-3144-6
DT Conference; (computer optical disk)
LA English
IT 521288-83-5
RL: PAC (Pharmacological activity); BIOL (Biological study)
(functional characterization of selective $\alpha 7$ nicotinic acetylcholine receptor agonists)
RN 521288-83-5 CAPLUS
CN Spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine], 5'-phenyl-, (2'R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2010 ACS on STN
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention relates to a preparation of isotope-labeled spiro(azabicyclooctane-furopyridine) derivs. of formula I [wherein: Ar is 6-membered (un)substituted aromatic ring with 0-4 nitrogen atoms in the ring; R1 is independently at each occurrence H, alkyl, or halogen, provided that at least one occurrence of R1 comprises tritium or a halogen radioisotope], useful as ligands for nicotinic acetylcholine receptor. For instance, deuterium-labeled fluorophenylspiro(azabicyclooctane-furopyridine) derivative II was prepared from (tribromofluorophenyl)spiro(azabicyclooctane-furopyridine) derivative III and deuterium gas in the presence of palladium. The invention compds. were tested in $\alpha 7$ and $\alpha 4$ nAChR affinity assays and showed binding

affinities (Ki) of less than 1000 nM.

AN 2005:300454 CAPLUS

DN 142:373816

TI A preparation of isotope-labeled spiro(azabicyclooctane-fuopyridine) derivatives, useful as ligands for nicotinic acetylcholine receptor

IN Dorff, Peter; Gordon, John; Heys, John Richard; Keith, Richard A.; McCarthy, Dennis J.; Phillips, Eifion; Smith, Mark A.

PA Astrazeneca AB, Swed.; Astrazeneca UK Ltd.

SO PCT Int. Appl., 25 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 12

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|------------------|----------|
| PI | WO 2005030778 | A1 | 20050407 | WO 2004-GB4116 | 20040924 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| | RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| | AU 2004276061 | A1 | 20050407 | AU 2004-276061 | 20040924 |
| | CA 2538705 | A1 | 20050407 | CA 2004-2538705 | 20040924 |
| | EP 1668016 | A1 | 20060614 | EP 2004-768659 | 20040924 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, HR | | | | |
| | CN 1856497 | A | 20061101 | CN 2004-80027711 | 20040924 |
| | BR 2004014633 | A | 20061107 | BR 2004-14633 | 20040924 |
| | JP 2007506719 | T | 20070322 | JP 2006-527486 | 20040924 |
| | NZ 546414 | A | 20090731 | NZ 2004-546414 | 20040924 |
| | CN 101052637 | A | 20071010 | CN 2005-80031826 | 20050922 |
| | MX 2006003196 | A | 20060623 | MX 2006-3196 | 20060322 |
| | ZA 2006002445 | A | 20070926 | ZA 2006-2445 | 20060324 |
| | NO 2006001819 | A | 20060626 | NO 2006-1819 | 20060425 |
| | US 20070172420 | A1 | 20070726 | US 2007-573133 | 20070112 |
| | AU 2009200802 | A1 | 20090319 | AU 2009-200802 | 20090227 |
| PRAI | US 2003-505731P | P | 20030925 | | |
| | AU 2004-276061 | A3 | 20040924 | | |
| | WO 2004-GB4112 | A | 20040924 | | |
| | WO 2004-GB4116 | W | 20040924 | | |
| | US 2004-640309P | P | 20041230 | | |
| | WO 2005-SE1404 | W | 20050922 | | |

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS CASREACT 142:373816; MARPAT 142:373816

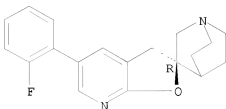
IT 849434-95-3P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of isotope-labeled spiro(azabicyclooctane-fuopyridine) derivs. useful as ligands for nicotinic acetylcholine receptor)

RN 849434-95-3 CAPLUS
 CN Spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine],
 5'-(2-fluorophenyl)-, (2'R)- (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2010 ACS ON STN

AB The present invention relates to radiolabeled compds. particularly 1-azabicyclo [2.2.2]octane compds. (i.e., quinuclidine compds.) which are labeled with one or more radioisotopes and which are suitable for imaging or therapeutic treatment of tissues, organs, or tumors which express the α 7-nicotinic cholinergic receptor. In another embodiment, the invention relates to methods of imaging tissues, organs, or tumors using radiolabeled compds. of the invention, particularly tissues, organs, or tumors which express α 7-nicotinic cholinergic receptor to which the compds. of the invention have an affinity.

AN 2005:14173 CAPLUS

DN 142:88902

TI Imaging agents and methods of imaging α 7-nicotinic cholinergic receptor

IN Pomper, Martin G.; Musachio, John L.; Fan, Hong; Dannals, Robert F.; Foss, Catherine; Phillips, Elifion; Gordon, Jack; McCarthy, Dennis; Keith, Richard; Smith, Mark; Heys, Dick; Dorf, Peter

PA Johns Hopkins University, USA

SO PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DT Patent

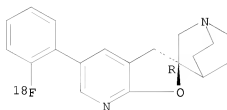
LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|--|----------|-----------------|----------|
| PI | WO 2005000250 | A2 | 20050106 | WO 2004-US20530 | 20040624 |
| | WO 2005000250 | A3 | 20060323 | | |
| | W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| | RW: | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, | | | |

SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
 SN, TD, TG
 US 20050129610 A1 20050616 US 2004-877813 20040624
 PRAI US 2003-482108P P 20030624
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OS MARPAT 142:88902
 IT 816462-90-5
 RL: DGN (Diagnostic use); BIOL (Biological study); USES (Uses)
 (imaging agents for $\alpha 7$ -nicotinic receptors)
 RN 816462-90-5 CAPLUS
 CN Spiro[1-azabicyclo[2.2.2]octane-3,2'-(3'H)-furo[2,3-b]pyridine],
 5'-[2-(fluoro-18F)phenyl]-, (2'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
 RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2010 ACS ON STN

AB (R)-(+)-5'-phenylspiro-1-azabicyclo[2.2.2]octane-3,2'-(3'H)-furo[2,3-b]pyridine (PSAB-OFF) in a battery of behavioral assays in the rat was evaluated. Results indicated that PSAB-OFF slightly but significantly decreased spontaneous locomotor activity 20-40 min after injection-(20% decrease at 10 mg/kg), but failed to alter stimulant-induced activity, and ketamine-induced disruption of prepulse inhibition, and had no effect in the forced swim test or ultrasonic vocalization. The compound also failed to alter cognitive performance in the eight-arm radial maze and had no functional or neuroprotective actions in the 6-hydroxy-dopamine (6-OHDA) model. PSAB-OFF was thus inactive in a wide range of behavioral assays. It is not clear whether this reflects a relatively unimportant role for the $\alpha 7$ receptor in behavioral processes; insufficient exposure of the receptor to the compound; rapid receptor desensitization, and/or a significantly lower affinity for rodent native receptors compared with human recombinant $\alpha 7$ receptors.

AN 2004:936884 CAPLUS

DN 142:127838

TI Brain penetration and behavioral properties of a potent $\alpha 7$ nicotinic acetylcholine receptor agonist in the rat

AU Moore, N. A.; McKinzie, D. L.; Mitchell, S. N.; Keenan, M.; Dobson, D. R.; Wishart, G.; O'Neill, M. F.; Murray, T. K.; Tree, B.; Iyengar, S.; Hart, J.; Shaw, D.; Simmons, R. M. A.; Kalra, A. B.; Miles, C.; Conway, M.; Boot, J. R.; Baker, S. R.; Sher, E.; Tricklebank, M. D.; O'Neill, M. J.

CS Lilly Research Centre, Eli Lilly & Co. Ltd, Windlesham, Surrey, UK

SO Cholinergic Mechanisms: Function and Dysfunction, [International Symposium

on Cholinergic Mechanisms], 11th, St. Moritz, Switzerland, May 5-9, 2002 (2004), Meeting Date 2002, 649-650. Editor(s): Silman, Israel. Publisher: Taylor & Francis Ltd., London, UK. CODEN: 69GBA2; ISBN: 1-84184-075-0

DT Conference

LA English

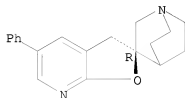
IT 521288-83-5

RL: BSU (Biological study, unclassified); BIOL (Biological study) (brain penetration and behavioral properties of a potent $\alpha 7$ nicotinic acetylcholine receptor agonist in rat)

RN 521288-83-5 CAPLUS

CN Spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine], 5'-phenyl-, (2'R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2010 ACS on STN

AB Methods of inhibiting release of a proinflammatory cytokine from a macrophage are provided. The methods comprise treating the macrophage with a cholinergic agonist in an amount sufficient to decrease the amount of the proinflammatory cytokine that is released from the macrophage, wherein the cholinergic agonist is selective for an $\alpha 7$ nicotinic receptor. Methods for inhibiting an inflammatory cytokine cascade in a patient are also provided. The methods comprise treating the patient with a cholinergic agonist in an amount sufficient to inhibit the inflammatory cytokine cascade, wherein the cholinergic agonist is selective for an $\alpha 7$ nicotinic receptor. Methods for determining whether a compound is a cholinergic agonist reactive with an $\alpha 7$ nicotinic receptor are also provided. The methods comprise determining whether the compound inhibits release

of a proinflammatory cytokine from a mammalian cell. Addnl., methods for determining whether a compound is a cholinergic antagonist reactive with an $\alpha 7$ nicotinic receptor are provided. These methods comprise determining whether the compound reduces the ability of a cholinergic agonist to inhibit the release of a proinflammatory cytokine from a mammalian cell. Oligonucleotides or mimetics capable of inhibiting attenuation of lipopolysaccharide-induced TNF release from a mammalian macrophage upon exposure of the macrophage to a cholinergic agonist are also provided. The oligonucleotides or mimetics consist essentially of a sequence greater than 5 nucleotides long that is complementary to an mRNA of an $\alpha 7$ receptor. Addnl., methods of inhibiting attenuation of TNF release from a mammalian macrophage upon exposure of the macrophage to a cholinergic agonist are provided. These methods comprise treating the macrophage with the above-described oligonucleotide or mimetic. Sepsis in mice was

treated with 3-(2,4-dimethoxybenzylidene)anabaseine.

AN 2004:513538 CAPLUS

DN 141:65099

TI Inhibition of inflammation using $\alpha 7$ nicotinic receptor-binding
cholinergic agonists

IN Tracey, Kevin J.; Wang, Hong

PA North Shore-Long Island Jewish Research Institute, USA

SO PCT Int. Appl., '75 pp.

CODEN: PIXXD2

DT Patent

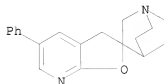
LA English

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|------------------|----------|
| PI | WO 2004052365 | A2 | 20040624 | WO 2003-US38708 | 20031205 |
| | WO 2004052365 | A3 | 20040923 | | |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| | RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| | CA 2507502 | A1 | 20040624 | CA 2003-2507502 | 20031205 |
| | AU 2003298939 | A1 | 20040630 | AU 2003-298939 | 20031205 |
| | AU 2003298939 | B2 | 20070315 | | |
| | EP 1581223 | A2 | 20051005 | EP 2003-796701 | 20031205 |
| | EP 1581223 | B1 | 20071114 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| | CN 1735414 | A | 20060215 | CN 2003-80108261 | 20031205 |
| | JP 2006514946 | T | 20060518 | JP 2004-559325 | 20031205 |
| | AT 378048 | T | 20071115 | AT 2003-796701 | 20031205 |
| | ES 2293086 | T3 | 20080316 | ES 2003-796701 | 20031205 |
| | EP 1949901 | A2 | 20080730 | EP 2007-20473 | 20031205 |
| | EP 1949901 | A3 | 20081015 | | |
| | R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PT, RO, SE, SI, SK, TR | | | | |
| | EP 2062595 | A1 | 20090527 | EP 2009-1425 | 20031205 |
| | R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PT, RO, SE, SI, SK, TR | | | | |
| | IN 2005DN02359 | A | 20061229 | IN 2005-DN2359 | 20050602 |
| FRAI | US 2002-431650P | P | 20021206 | | |
| | EP 2003-796701 | A3 | 20031205 | | |
| | EP 2007-20473 | A3 | 20031205 | | |
| | WO 2003-US38708 | W | 20031205 | | |
| OS | MARPAT 141:65099 | | | | |
| IT | 220099-94-5 | | | | |

RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);
THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(as cholinergic agonist of $\alpha 7$ nicotinic receptor; inflammation
inhibition with $\alpha 7$ nicotinic receptor-binding cholinergic
agonists)

RN 220099-94-5 CAPLUS
 CN Spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine], 5'-phenyl-
 (CA INDEX NAME)

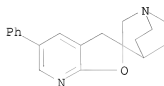


OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2010 ACS on STN
 AB The invention discloses combinations of $\alpha 7$ -nAChR agonists and
 statins, pharmaceutical compns. containing them, and methods of using them for
 the treatment or prophylaxis of neurol. degenerative diseases.
 AN 2004:203672 CAPLUS
 DN 140:229466
 TI $\alpha 7$ -Nicotinic receptor agonists and statins in combination for the
 treatment of neurodegenerative diseases
 IN Keith, Richard
 PA Astrazeneca AB, Swed.
 SO PCT Int. Appl., 29 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|----------|
| PI | WO 2004019947 | A1 | 20040311 | WO 2003-SE1352 | 20030901 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| | AU 2003256203 | A1 | 20040319 | AU 2003-256203 | 20030901 |
| | EP 1545537 | A1 | 20050629 | EP 2003-791540 | 20030901 |
| | EP 1545537 | B1 | 20070404 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| | JP 2006505530 | T | 20060216 | JP 2004-532517 | 20030901 |
| | AT 358485 | T | 20070415 | AT 2003-791540 | 20030901 |
| | PT 1545537 | E | 20070620 | PT 2003-791540 | 20030901 |
| | ES 2283860 | T3 | 20071101 | ES 2003-791540 | 20030901 |
| | US 20050256146 | A1 | 20051117 | US 2005-525783 | 20050228 |
| | HK 1077193 | A1 | 20070921 | HK 2005-109104 | 20051014 |

US 20090192180 A1 20090730 US 2008-186915 20080806
 PRAI SE 2002-2598 A 20020902
 WO 2003-SE1352 W 20030901
 US 2005-525783 B1 20050228
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 IT 220099-94-5
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 ($\alpha 7$ -nicotinic receptor agonists and statins in combination for
 treatment of neurodegenerative diseases)
 RN 220099-94-5 CAPLUS
 CN Spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine], 5'-phenyl-
 (CA INDEX NAME)

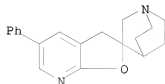


OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
 RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2010 ACS on STN
 AB The invention discloses a method for treating fibromyalgia syndrome and
 fibromyalgia-related symptoms with an agonist of $\alpha 7$ nicotinic
 acetylcholine receptors.
 AN 2003:319637 CAPLUS
 DN 138:314632
 TI Agonists of $\alpha 7$ nicotinic acetylcholine receptors for the treatment
 of fibromyalgia syndrome
 IN McCarthy, Dennis; Gurley, David
 PA AstraZeneca AB, Swed.
 SO PCT Int. Appl., 26 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-----|--|------|----------|-----------------|----------|
| PI | WO 2003032897 | A2 | 20030424 | WO 2002-SE1887 | 20021015 |
| | WO 2003032897 | A3 | 20031113 | | |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |

AU 2002339810 A1 20030428 AU 2002-339810 20021015
 EP 1453828 A2 20040908 EP 2002-778156 20021015
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
 JP 2005510482 T 20050421 JP 2003-535703 20021015
 US 20040259909 A1 20041223 US 2004-492891 20040416
 PRAI SE 2001-3463 A 20011016
 SE 2002-1033 A 20020404
 WO 2002-SE1887 W 20021015
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OS MARPAT 138:314632
 IT 220099-94-5
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (α7 nicotinic agonists for treatment of fibromyalgia syndrome)
 RN 220099-94-5 CAPLUS
 CN Spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine], 5'-phenyl-
 (CA INDEX NAME)

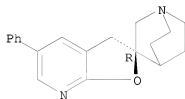


OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
 RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2010 ACS on STN
 AB 5-Hydroxytryptamine 3 (5-HT3) and α7 nicotinic receptors share high
 sequence homol. and pharmacol. cross-reactivity. An assessment of the
 potential role of α7 receptors in many neurophysiol. processes, and
 hence their therapeutic value, requires the development of selective
 α7 receptor agonists. The authors used a recently reported
 selective α7 receptor agonist,
 (R)-(-)-5'-phenylspiro-1-azabicyclo[2.2.2]
 octane-3,2'(3'H)-furo[2,3-b]pyridine (PSAB-OFF) and confirmed its activity
 on human recombinant α7 receptors. However, PSAB-OFF also displayed
 high affinity binding to 5-HT3 receptors. To assess the functional
 activity of PSAB-OFF on 5-HT3 receptors the authors studied recombinant
 human 5-HT3 receptors expressed in *Xenopus* oocytes, as well as native
 mouse 5-HT3 receptors expressed in N1E-115 neuroblastoma cells, using
 whole-cell patch clamp and Ca2+ imaging. The authors' results show that
 PSAB-OFF is an equipotent, partial agonist of both α7 and 5-HT3
 receptors. The authors conclude that it will be necessary to identify the
 determinant of this overlapping pharmacol. to develop more selective
 α7 receptor ligands.
 AN 2002:725234 CAPLUS
 DN 138:362501
 TI PSAB-OFF, a selective α7 nicotinic receptor agonist, is also a
 potent agonist of the 5-HT3 receptor
 AU Broad, Lisa M.; Felthouse, Catherine; Zwart, Ruud; McPhie, Gordon I.;

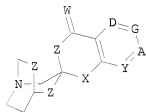
Pearson, Kathy H.; Craig, Peter J.; Wallace, Louise; Broadmore, Richard J.; Boot, John R.; Keenan, Martine; Baker, S. Richard; Sher, Emanuele
 CS Lilly Research Centre, Eli Lilly and Company Limited, Windlesham, GU20
 6PH, UK
 SO European Journal of Pharmacology (2002), 452(2), 137-144
 CODEN: EJPHAZ; ISSN: 0014-2999
 PB Elsevier Science B.V.
 DT Journal
 LA English
 IT 521288-83-5
 RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic
 use); BIOL (Biological study); USES (Uses)
 (PSAB-OPF, a selective $\alpha 7$ nicotinic receptor agonist, is also a
 5-HT3 receptor agonist)
 RN 521288-83-5 CAPLUS
 CN Spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine],
 5'-phenyl-, (2'R)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

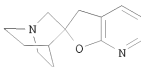


OSC.G 28 THERE ARE 28 CAPLUS RECORDS THAT CITE THIS RECORD (28 CITINGS)
 RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2010 ACS on STN
 GI



I



II

AB Title compds. (I; A = N or CR2; D = N or CR4; G = N or CR3; R2-R4 = H,
 halo, alkyl, alkoxy, etc.; W = O, H2, F2; X = O or S; Y = CH, N, NO; each
 Z, independently, may be bond or CH2) were prepared. Thus, 3-quinuclidinone
 was cyclocondensed with Me3S(O)I and the N-BH3-complexed product condensed
 with 2-chloropyridine to give, after cyclization and decomplexation, title
 compound II.
 AN 1999:77567 CAPLUS
 DN 130:139332

TI Preparation of spiro[azabicyclo-fuopyridine] derivatives and analogs as
 $\alpha 7$ nicotinic receptor agonists

IN Phillips, Eifion; Mack, Robert; Macor, John; Semus, Simon

PA Astra Aktiebolag, Swed.

SO PCT Int. Appl., 71 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|------------------|----------|
| PI | WO 9903859 | A1 | 19990128 | WO 1998-SE1364 | 19980710 |
| | W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW | | | | |
| | RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| | ZA 9805995 | A | 19990803 | ZA 1998-5995 | 19980707 |
| | CA 2296031 | A1 | 19990128 | CA 1998-2296031 | 19980710 |
| | CA 2296031 | C | 20080108 | | |
| | AU 9883679 | A | 19990210 | AU 1998-83679 | 19980710 |
| | AU 739022 | B2 | 20011004 | | |
| | EP 996622 | A1 | 20000503 | EP 1998-934078 | 19980710 |
| | EP 996622 | B1 | 20021009 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| | TR 200000129 | T2 | 20000721 | TR 2000-129 | 19980710 |
| | BR 9810924 | A | 20000815 | BR 1998-10924 | 19980710 |
| | EE 200000031 | A | 20001016 | EE 2000-31 | 19980710 |
| | EE 4399 | B1 | 20041215 | | |
| | HU 2000003844 | A2 | 20010730 | HU 2000-3844 | 19980710 |
| | HU 2000003844 | A3 | 20021128 | | |
| | JP 2001510194 | T | 20010731 | JP 2000-503083 | 19980710 |
| | NZ 502298 | A | 20020201 | NZ 1998-502298 | 19980710 |
| | EP 1213291 | A1 | 20020612 | EP 2002-5982 | 19980710 |
| | EP 1213291 | B1 | 20041201 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL | | | | |
| | AT 225792 | T | 20021015 | AT 1998-934078 | 19980710 |
| | PT 996622 | E | 20030131 | PT 1998-934078 | 19980710 |
| | ES 2185185 | T3 | 20030416 | ES 1998-934078 | 19980710 |
| | RU 2202553 | C2 | 20030420 | RU 2000-103958 | 19980710 |
| | SK 283484 | B6 | 20030805 | SK 1999-1835 | 19980710 |
| | CN 1117755 | C | 20030813 | CN 1998-809055 | 19980710 |
| | AT 283859 | T | 20041215 | AT 2002-5982 | 19980710 |
| | ES 2231599 | T3 | 20050516 | ES 2002-5982 | 19980710 |
| | PL 193065 | B1 | 20070131 | PL 1998-338259 | 19980710 |
| | IL 134086 | A | 20070819 | IL 1998-134086 | 19980710 |
| | IN 1998DE01989 | A | 20070831 | IN 1998-DE1989 | 19980710 |
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 130:139332

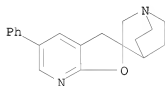
IT 220099-94-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of spiro[azabicyclo-fuopyridine] derivs. and analogs as α7 nicotinic receptor agonists)

RN 220099-94-5 CAPLUS

CN Spiro[1-azabicyclo[2.2.2]octane-3,2'(3'H)-furo[2,3-b]pyridine], 5'-phenyl- (CA INDEX NAME)



OSC.G 24 THERE ARE 24 CAPLUS RECORDS THAT CITE THIS RECORD (26 CITINGS)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT